Isis

AN INTERNATIONAL REVIEW
DEVOTED TO THE HISTORY OF SCIENCE
AND ITS CULTURAL INFLUENCES

FOUNDED BY GEORGE SARTON

JOURNAL OF THE
HISTORY OF SCIENCE SOCIETY
VOLUME 94, 2003

ISIS
VOLUME 94
2003

EDITORIAL OFFICE
CORNELL UNIVERSITY

EDITOR
MARGARET W. ROSSITER

ASSOCIATE EDITORS
MICHELE L. ALDRICH
KATHRYN OLESKO
STEPHEN P. WELDON

MANAGING EDITOR
ALAN S. WEBER

MANUSCRIPT EDITOR
JOAN VANDEGRIFT

EDITORIAL ASSISTANTS
BRIAN G. BRERETON
LISA EDWARDS
EUNJEONG MA
KIRSTEN M. ROSE

ADVISORY EDITORS
ROGER ARIEW, *Virginia Polytechnic Institute and State University*
LAWRENCE BADASH, *University of California, Santa Barbara*
JAMES BENNETT, *Oxford University*
JANET BROWNE, *Wellcome Trust Centre for the History of Medicine*
PETER DEAR, *Cornell University*
DAVID H. DEVORKIN, *Smithsonian Institution*
OTNIEL E. DROR, *The Hebrew University of Jerusalem*
JACALYN DUFFIN, *Queens University, Canada*
MAURICE FINOCCHIARO, *University of Nevada, Las Vegas*
JEAN GAYON, *University of Paris 1*
JOHN GREENBERG, *Paris*
ELIZABETH HAIGH, *St. Mary's University, Halifax*
VLADIMIR JANKOVIC, *University of Manchester*
SALLY GREGORY KOHLSTEDT, *University of Minnesota*
JOHN KRIGE, *Georgia Institute of Technology*
HENRIKA KUKLICK, *University of Pennsylvania*
JAMES LATTIS, *University of Wisconsin–Madison*
REBECCA LOWEN, *Metropolitan State University*
KENNETH LUDMERER, *Washington University, St. Louis*
ABIGAIL J. LUSTIG, *University of Texas–Austin*
ANTONI MALET, *Universitat Pompeu Fabra, Barcelona*
NAOMI ORESKES, *University of California, San Diego*
KATHERINE PANDORA, *University of Oklahoma*
NEIL RIBE, *Institut de Physique du Globe de Paris*
IDA H. STAMHUIS, *Free University Amsterdam*
LAURA DASSOW WALLS, *Lafayette College*
JESSICA WANG, *University of California, Los Angeles*
GILBERT WHITTEMORE, *Independent Scholar, of Counsel with Stalter & Kennedy, LLP, Boston*

FORMER EDITORS
GEORGE SARTON (1913–1952)
I. BERNARD COHEN (1953–1958)
HARRY WOOLF (1959–1963)
ROBERT P. MULTHAUF (1964–1978)
ARNOLD THACKRAY (1979–1985)
CHARLES ROSENBERG (1986–1988)
RONALD L. NUMBERS (1989–1993)

EDITORIAL OFFICE
RM. 304, BETHUNE COLLEGE
YORK UNIVERSITY, 4700 KEELE STREET
TORONTO, ONTARIO, CANADA M3J 1P3

CONTENTS OF ISIS, VOLUME 94

EDITORIAL

Margaret W. Rossiter: *Forty Issues On; or,* Isis *Midwifery* vii

ARTICLES

Alan H. Batten: *What Eddington Did* Not *Say* 656
Soraya de Chadarevian: *Portrait of a Discovery: Watson, Crick, and the Double Helix* 90
Cristina Chimisso; Gad Freudenthal: *A Mind of Her Own: Hélène Metzger to Émile Meyerson, 1933* 477
Kathleen Crowther-Heyck: *Wonderful Secrets of Nature: Natural Knowledge and Religious Piety in Reformation Germany* 253
Raf De Bont: *The Creation of Prehistoric Man: Aimé Rutot and the Eolith Controversy, 1900–1920* 604
Paul Elliot: *Erasmus Darwin, Herbert Spencer, and the Origins of the Evolutionary Worldview in British Provincial Scientific Culture, 1770–1850* 1
Anita Guerrini: *Duverney's Skeletons* 577
Erwin N. Hiebert: *Response to Batten* 660
Margaret C. Jacob; Dorothée Sturkenboom: *A Women's Scientific Society in the West: The Late Eighteenth-Century Assimilation of Science* 217
Nurit Kirsh: *Population Genetics in Israel in the 1950s: The Unconscious Internalization of Ideology* 631
Thomas W. Laqueur: *Sex in the Flesh* 300
Theresa Levitt: *Biot's Paper and Arago's Plates: Photographic Practice and the Transparency of Representation* 456
Londa Schiebinger: *Skelettestreit* 307
Matthew Stanley: *"An Expedition to Heal the Wounds of War": The 1919 Eclipse and Eddington as Quaker Adventurer* 57
Michael Stolberg: *A Woman Down to Her Bones: The Anatomy of Sexual Difference in the Sixteenth and Early Seventeenth Centuries* 274
Catherine Westfall: *Rethinking Big Science: Modest, Mezzo, Grand Science and the Development of the Bevalac, 1971–1993* 30
Jeffrey R. Wigelsworth: *Competing to Popularize Newtonian Philosophy: John Theophilus Desaguliers and the Preservation of Reputation* 435

NEWS OF THE PROFESSION

March issue 106
June issue 314
September issue 492
December issue 661

LETTERS TO THE EDITOR

June issue 317
September issue 500
December issue 675

ESSAY REVIEWS

Kenneth Caneva: *The Ecology of Romantic Biology*
Robert J. Richards: *The Romantic Conception of Life: Science and Philosophy in the Age of Goethe* 679
Roy MacLeod: *Toward a New Synthesis: Chemists and Chemical Industry in Europe*
Ernst Homburg; Anthony S. Travis; Harm G. Schröter (Editors): *The Chemical Industry in Europe, 1850–1914: Industrial Growth, Pollution, and Professionalization* 114
James E. McClellan III: *Patronage versus Institutions*
E. C. Spary: *Utopia's Garden: French Natural History from Old Regime to Revolution* 324
Daniel J. Kevles: *America: An Expanded Biographical Register*
John A. Garraty; Mark C. Carnes (Editors): *American National Biography* 330

BOOK REVIEWS

March issue 117
June issue 334
September issue 503
December issue 684